

1600 RUSH

CRF Error Corrected by the STIC Systems Branch

Serial Number: 09/686,234B

CRF Processing Date: 11/7/2002  
Edited by: [Signature]  
Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☒ Inserted mandatory headings, specifically: (D) STATE; (E) COUNTRY:
- ☒ Corrected an obvious error in the response, specifically:  
Seq 2 - changed (B) TYPE: AMINO ACID to (B) TYPE: nucleic acid
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



1600

## RAW SEQUENCE LISTING

DATE: 11/07/2002

PATENT APPLICATION: US/09/686,234B

TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

## SEQUENCE LISTING

```

2 (1) GENERAL INFORMATION:
4   (i) APPLICANT: SOMMERVILLE, CHRIS
5       SCHIEBLE, WOLF
7   (ii) TITLE OF INVENTION: MODIFIED CELLULOSE SYNTHASE GENE
8       FROM ARABIDOPSIS THALIANA CONFERS HERBICIDE RESISTANCE
9       TO PLANTS
11  (iii) NUMBER OF SEQUENCES: 2
13  (iv) CORRESPONDENCE ADDRESS:
14      (A) ADDRESSEE: PAUL A. GOTTLIEB, AGCTT
15                  DEPARTMENT OF ENERGY
16                  GC-62 (FORSTL) MS-6F-067
17      (B) STREET: 1000 INDEPENDENCE AVE. S.W.
18      (C) CITY: WASHINGTON, D.C.
19      (D) STATE: NONE
20      (E) COUNTRY: USA
21      (F) ZIP: 20585
23  (v) COMPUTER READABLE FORM:
24      (A) MEDIUM TYPE: FLOPPY DISK
25      (B) COMPUTER: IBM PC COMPATIBLE
26      (C) OPERATING SYSTEM: MS-DOS
27      (D) SOFTWARE: WORDPERFECT 8
29  (vi) CURRENT APPLICATION DATA:
C--> 30      (A) APPLICATION NUMBER: US/09/686,234B
C--> 31      (B) FILING DATE: 11-Oct-2000
34  (viii) ATTORNEY/AGENT INFORMATION:
35      (A) NAME: SMITH, BRADLEY
36      (B) REGISTRATION NUMBER: 334436
37      (C) REFERENCE/DOCKET NUMBER: S-93994
C--> 39  (ix) TELECOMMUNICATION INFORMATION:
40      (A) TELEPHONE: 630-252-2160
41      (B) TELEFAX: 630-252-2779
46 (2) INFORMATION FOR SEQ ID NO: 1:
48   (i) SEQUENCE CHARACTERISTICS:
49       (A) LENGTH: 3563 NUCLEOTIDES
50       (B) TYPE: NUCLEIC ACID
51       (C) STRANDEDNESS: DOUBLE STRANDED
52       (D) TOPOLOGY: LINEAR
C--> 56   (ii) MOLECULE TYPE: cDNA
61   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
C--> 63   ATCCCAAGAT TCTCCTCTTC GTCTTCCTTA TAAACTATCT CTCTGTAGAG AAGAAAGCTT 60
64   GGATCCAGAT TGAGAGAGAT TCAGAGAGCC ACATCACCAC ACTCCATCTT CAGATCTCAT 120
65   GATTGAACT ATTCCGACGT TTCGGTGTTG GAAGCAACTA AGTGACAAAT GGAATCCGAA 180

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/686,234B

DATE: 11/07/2002  
 TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

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66      GGGGAAACCG CGGGAAAGCC GATGAAGAAC ATTGTTCCGC AGACTTGCCA GATCTGTAGT 240
67      GACAATGTTG GCAAGACTGT TGATGGAGAT CGTTTTGTGG CTTGTGATAT TTGTTTCATTC 300
68      CCAGTTTGTC GGCCTTGCTA CGAGTATGAG AGGAAAGATG GGAATCAATC TTGTCTCAG 360
69      TGCAAAACCA GATACAAGAG GCTCAAAGGT AGTCCTGCTA TTCTTGGTGA TAAAGACGAG 420
70      GATGGCTTAG CTGATGAAGG TACTGTTGAG TTCAACTACC CTCAGAAGGA GAAAATTTC 480
71      GAGCGGATGC TTGGTTGGCA TCTTACTCGT GGAAGGGAG AGGAAATGGG GGAACCCAG 540
72      TATGATAAAG AGGTCTCTCA CAATCATCTT CCTCGTCTCA CGAGCAGACA AGATACTTCA 600
73      GGAGAGTTT CTGCTGCCTC ACCTGAACGC CTCTCTGTAT CTTCTACTAT CGCTGGGGGA 660
74      AAGCGCCTTC CCTATTTCATC AGATGTCAAT CAATCACCAA ATAGAAGGAT TGTGGATCCT 720
75      GTTGGACTCG GGAATGTAGC TTGGAAGGAG AGAGTTGATG GCTGGAAAAT GAAGCAAGAG 780
76      AAGAATACTG GTCCTGTCAG CACGCAGGCT GCTTCTGAAA GAGGTGGAGT AGATATTGAT 840
77      GCCAGCACAG ATATCCTAGC AGATGAGGCT CTGCTGAATG ACGAAGCGAG GCAGCCTCTG 900
78      TCAAGGAAAG TTTCAATTCC TTCATCACGG ATCAATCCTT ACAGAATGGT TATTATGCTG 960
79      CGGCTTGTTA TCCTTTGTCT CTTCTTGCAT TACCGTATAA CAAACCCAGT GCCAAATGCC 1020
80      TTTGCTCTAT GGCTGGTCTC TGTGATATGT GAGATCTGGT TTGCCTTATC CTGGATTTTG 1080
81      GATCAGTTTC CCAAGTGGTT TCCTGTGAAC CGTGAAACCT ACCTCGACAG GCTTGCTTTA 1140
82      AGATATGATC GTGAAGGTGA GCCATCACAG TTAGCTGCTG TTGACATTTT CGTGAGTACT 1200
83      GTTGACCCCT TGAAGGAGCC ACCCTTGTG ACAGCCAACA CAGTGCTCTC TATTCTGGCT 1260
84      GTTGACTACC CAGTTGACAA GGTGTCCGTG TATGTTTTTG ATGATGGTGC TGCTATGTTA 1320
85      TCATTTGAAT CACTTGACAG AACATCAGAG TTTGCTCGTA AATGGGTACC ATTTTGCAAG 1380
86      AAATATAGCA TAGAGCCTCG TGCACCAGAA TGGTACTTTG CTGCGAAAAT AGATTACTTG 1440
87      AAGGATAAAG TTCAGACATC ATTTGTCAAA GATCGTAGAG CTATGAAGAG GGAATATGAG 1500
88      GAATTTAAAA TCCGAATCAA TGCACTTGTT TCCAAAGCCC TAAATGTCC TGAAGAAGGG 1560
89      TGGGTATATG AAGATGGCAC ACCGTGGCCT GGAAATAATA CAGGGGACCA TCCAGGAATG 1620
90      ATCCAGGTCT TCTTAGGGCA AAATGGTGGA CTTGATGCAG AGGGCAATGA GCTCCCGCT 1680
91      TTGGTATATG TTTCTCGAGA AAAGCGACCA GGATTCCAGC ACCACAAAAA GGCTGGTGCT 1740
92      ATGAATGCAC TGGTGAGAGT TTCAGCAGTT CTTACCAATG GACCTTTTCAT CTTGAATCTT 1800
93      GATTGTGATC ATTACATAAA TAACAGCAAA GCCTTAAGAG AAGCAATGTG CTTCTGTATG 1860
94      GACCCAAACC TCGGGAAGCA AGTTTGTAT GTTCAGTTCC CACAAAGATT TGATGGTATC 1920
95      GATAAGAACG ATAGATATGC TAATCGTAAT ACCGTGTTCT TTGATATTAA CTTGAGAGGT 1980
96      TTAGATGGGA TTCAAGGACC TGTATATGTC GGAAGTGGAT GTGTTTCAA CAGAACAGCA 2040
97      TTATACGGTT ATGAACCTCC AATAAAAGTA AAACACAAGA AGCCAAGTCT TTTATCTAAG 2100
98      CTCTGTGGTG GATCAAGAAA GAAGAATTCC AAAGCTAAGA AAGAGTCGGA CAAAAAGAAA 2160
99      TCAGGCAGGC ATACTGACTC AACTGTTCC TATTCAACC TCGATGACAT AGAAGAGGGA 2220
100     GTTGAAGGTG CTGGTTTTGA TGATGAAAAG GCGCTCTTAA TGTGCGAAAT GAGCCTGGAG 2280
101     AAGCGATTTG GACAGTCTGC TGTTTTGTGT GCTTCTACCC TAATGGAAAA TGGTGGTGTG 2340
102     CCTCCTTCAG CAACTCCAGA AAACCTTCTC AAAGAGGCTA TCCATGTGAT TAGTTGTGGT 2400
103     TATGAGGATA AGTCAGATTG GGAATGGAG ATTGGATGGA TCTATGGTTC TGTGACAGAA 2460
104     GATATTCTGA CTGGGTTCAA AATGCATGCC CGTGGATGGC GATCCATTTA CTGCATGCCT 2520
105     AAGCTTCCAG CTTTCAAGGG TTCTGCTCCT ATCAATCTTT CAGATCGTCT GAACCAAGTG 2580
106     CTGAGGTGGG CTTTAGGTTT AGTTGAGATT CTCTTCAGTC GGCATTGTCC TATATGGTAT 2640
107     GGTTACAATG GGAGGCTAAA ATTTCTTGAG AGGTTTGCCT ATGTGAACAC CACCATCTAC 2700
108     CCTATCACCT CCATTCTCTT TCTCATGTAT TGTACATTGC TAGCCGTTTG TCTCTTACC 2760
109     AACAGCTTTA TTATTCTCA GATTAGTAAC ATTGCAAGTA TATGGTTTCT GTCTCTCTT 2820
110     CTCTCCATTT TCGCCACGGG TATACTAGAA ATGAGGTGGA GTGGCGTAGG CATAGACGAA 2880
111     TGGTGGAGAA ACGAGCAGTT TTGGGTCATT GGTGGAGTAT CCGCTCATTT ATTCGCTGTG 2940
112     TTTCAAGGTA TCCTCAAAGT CCTTGCCGGT ATTGACACAA ACTTCACAGT TATCTCAAAA 3000
113     GCTTCAGATG AAGACGGAGA CTTTGCTGAG CTCTACTTGT TCAAATGGAC AACACTTCTG 3060
114     ATTCCGCCAA CGACGCTGCT CATTGTAAAC TTAGTGGGAG TTGTTGCAGG AGTCTCTTAT 3120

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/686,234B

DATE: 11/07/2002  
TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

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117      GCTATCAACA GTGGATACCA ATCATGGGGA CCACTCTTTG GTAAGTTGTT CTTTGCCTTC 3180
118      TGGGTGATTG TTCACCTGTA CCCTTTCCTC AAGGGTTTGA TGGGTCGACA GAACCGGACT 3240
119      CCTACCATTG TTGTGGTCTG GTCTGTTCTC TTGGCTTCTA TCTTCTCGTT GTTGTGGGTT 3300
120      AGGATTGATC CCTTCACTAG CCGAGTCACT GGCCCGGACA TTCTGGAATG TGAATCAAC 3360
121      TGTTGAGAAG CGAGCAAATA TTTACCTGTT TTGAGGGTTA AAAAAAACAC AGAATTTAAA 3420
122      TTATTTTTCa TTGTTTTTATT TGTTCACTTT TTTACTTTTG TTGTGTGTAT CTGTCTGTTT 3480
123      GTTCTTCTGT CTTGGTGTCA TAAATTTATG TGTAGAATAT ATCTTACTCT AGTTACTTTT 3540
124      GAAAGTTATA ATTAAAGTGA AAG 3563

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127 (2) INFORMATION FOR SEQ ID NO: 2:

129 (i) SEQUENCE CHARACTERISTICS:

130 (A) LENGTH: 3563 NUCLEOTIDES

131 (B) TYPE: NUCLEIC ACID

132 (C) STRANDEDNESS: DOUBLE STRANDED

133 (D) TOPOLOGY: LINEAR

135 (ii) MOLECULE TYPE: cDNA

137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

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C--> 139      ATCCCAAGAT TCTCCTCTTC GTCTTCCTTA TAAACTATCT CTCTGTAGAG AAGAAAAGCTT 60
140      GGATCCAGAT TGAGAGAGAT TCAGAGAGCC ACATCACCAC ACTCCATCTT CAGATCTCAT 120
141      GATTTGAACT ATTCCGACGT TTCGGTGTGTT GAAGCAACTA AGTGACAAAT GGAATCCGAA 180
142      GGGGAAACCG CGGGAAAGCC GATGAAGAAC ATTGTTCCGC AGACTTGCCA GATCTGTAGT 240
143      GACAATGTTG GCAAGACTGT TGATGGAGAT CGTTTTGTGG CTTGTGATAT TTGTTCAATC 300
144      CCAGTTTGTC GGCCTTGCTA CGAGTATGAG AGGAAAGATG GGAATCAATC TTGTCCTCAG 360
145      TGCAAAACCA GATACAAGAG GCTCAAAGGT AGTCCTGCTA TTCCTGGTGA TAAAGACGAG 420
146      GATGGCTTAG CTGATGAAGG TACTGTTGAG TTCAACTACC CTCAGAAGGA GAAAATTTCA 480
147      GAGCGGATGC TTGGTTGGCA TCTTACTCGT GGGAAAGGGAG AGGAAATGGG GGAACCCCAG 540
148      TATGATAAAG AGGTCTCTCA CAATCATCTT CCTCGTCTCA CGAGCAGACA AGATACTTCA 600
149      GGAGAGTTTT CTGCTGCCTC ACCTGAACGC CTCTCTGTAT CTTCTACTAT CGCTGGGGGA 660
150      AAGCGCCTTC CCTATTCATC AGATGTCAAT CAATCACCAA ATAGAAGGAT TGTGGATCCT 720
151      GTTGGACTCG GGAATGTAGC TTGGAAGGAG AGAGTTGATG GCTGGAAAAT GAAGCAAGAG 780
152      AAGAATACTG GTCCTGTCAG CACGCAAGCT GCTTCTGAAA GAGGTGGAGT AGATATTGAT 840
153      GCCAGCACAG ATATCCTAGC AGATGAGGCT CTGCTGAATG ACGAAGCGAG GCAGCCTCTG 900
154      TCAAGGAAAG TTTCAATTCC TTCATCACGG ATCAATCCTT ACAGAATGGT TATTATGCTG 960
155      CGGCTTGTTA TCCTTTGTCT CTTCTTGCAT TACCGTATAA CAAACCCAGT GCCAAATGCC 1020
156      TTTGCTCTAT GGCTGGTCTC TGTGATATGT GAGATCTGGT TTGCCTTATC CTGGATTTT 1080
157      GATCAGTTTC CCAAGTGGTT TCCTGTGAAC CGTGAAACCT ACCTCGACAG GCTTGCTTTA 1140
158      AGATATGATC GTGAAGGTGA GCCATCACAG TTAGCTGCTG TTGACATTTT CGTGAGTACT 1200
159      GTTGACCCCT TGAAGGAGCC ACCCCTTGTG ACAGCCAACA CAGTGCTCTC TATTCTGGCT 1260
160      GTTGACTACC CAGTTGACAA GGTGTCCTGT TATGTTTTTG ATGATGGTGC TGCTATGTTA 1320
161      TCATTTGAAT CACTTGACAG AACATCAGAG TTTGCTCGTA AATGGGTACC ATTTTGCAAG 1380
162      AAATATAGCA TAGAGCCTCG TGCACCAGAA TGGTACTTTG CTGCGAAAAT AGATTACTTG 1440
163      AAGGATAAAG TTCAGACATC ATTTGTCAAA GATCGTAGAG CTATGAAGAG GGAATATGAG 1500
164      GAATTTAAAA TCCGAATCAA TGCACTTGTT TCCAAAGCCC TAAAATGTCC TGAAGAAGGG 1560
165      TGGGTTATGC AAGATGGCAC ACCGTGGCCT GGAAATAATA CAGGGGACCA TCCAGGAATG 1620
166      ATCCAGGTCT TCTTAGGGCA AAATGGTGGA CTTGATGCAG AGGGCAATGA GCTCCCGCGT 1680
167      TTGGTATATG TTTCTCGAGA AAAGCGACCA GGATTCCAGC ACCACAAAAA GGCTGGTGCT 1740
168      ATGAATGCAC TGGTGAGAGT TTCAGCAGTT CTTACCAATG GACCTTTCAT CTTGAATCTT 1800
169      GATTGTGATC ATTACATAAA TAACAGCAAA GCCTTAAGAG AAGCAATGTG CTTCTGATG 1860
170      GACCCAAACC TCGGGAAGCA AGTTTGTTAT GTTCAGTTCC CACAAAGATT TGATGGTATC 1920
171      GATAAGAACG ATAGATATGC TAATCGTAAT ACCGTGTTCT TTGATATTAA CTTGAGAGGT 1980

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## RAW SEQUENCE LISTING

DATE: 11/07/2002

PATENT APPLICATION: US/09/686,234B

TIME: 12:25:49

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

172	TTAGATGGGA	TTCAAGGACC	TGTATATGTC	GGAAGTGGAT	GTGTTTTCAA	CAGAACAGCA	2040
173	TTATACGGTT	ATGAACCTCC	AATAAAAAGTA	AAACACAAGA	AGCCAAGTCT	TTTATCTAAG	2100
174	CTCTGTGGTG	GATCAAGAAA	GAAGAATTCC	AAAGCTAAGA	AAGAGTCGGA	CAAAAAGAAA	2160
177	TCAGGCAGGC	ATACTGACTC	AACTGTTCCCT	GTATTCAACC	TCGATGACAT	AGAAGAGGGA	2220
178	GTTGAAGGTG	CTGGTTTTGA	TGATGAAAAG	GCGCTCTTAA	TGTCGCAAAT	GAGCCTGGAG	2280
179	AAGCGATTTG	GACAGTCTGC	TGTTTTTGTT	GCTTCTACCC	TAATGGAAAA	TGGTGGTGTT	2340
180	CCTCCTTCAG	CAACTCCAGA	AAACCTTCTC	AAAGAGGCTA	TCCATGTCAT	TAGTTGTGGT	2400
181	TATGAGGATA	AGTCAGATTG	GGGAATGGAG	ATTGGATGGA	TCTATGGTTC	TGTGACAGAA	2460
182	GATATTCTGA	CTGGGTTCAA	AATGCATGCC	CGTGGATGGC	GATCCATTTA	CTGCATGCCT	2520
183	AAGCTTCCAG	CTTTCAAGGG	TTCTGCTCCT	ATCAATCTTT	CAGATCGTCT	GAACCAAGTG	2580
184	CTGAGGTGGG	CTTTAGGTTT	AGTTGAGATT	CTCTTCAGTC	GGCATTGTCC	TATATGGTAT	2640
185	GGTTACAATG	GGAGGCTAAA	ATTTCTTGAG	AGGTTTGCCT	ATGTGAACAC	CACCATCTAC	2700
186	CCTATCACCT	CCATTCCCTT	TCTCATGTAT	TGTACATTGC	TAGCCGTTTG	TCTCTTCACC	2760
187	AACCAGTTTA	TTATTCCCTA	GATTAGTAAC	ATTGCAAGTA	TATGGTTTCT	GTCTCTCTTT	2820
188	CTCTCCATTT	TCGCCACGGG	TATACTAGAA	ATGAGGTGGA	GTGGCGTAGG	CATAGACGAA	2880
189	TGGTGGAGAA	ACGAGCAGTT	TTGGGTCATT	GGTGGAGTAT	CCGCTCATTT	ATTCGCTGTG	2940
190	TTTCAAGGTA	TCCTCAAAGT	CCTTGCCGGT	ATTGACACAA	ACTTCACAGT	TACCTCAAAA	3000
191	GCTTCAGATG	AAGACGGAGA	CTTTGCTGAG	CTCTACTTGT	TCAAATGGAC	AACACTTCTG	3060
192	ATTCCGCCAA	CGACGCTGCT	CATTGTAAAC	TTAGTGGGAG	TTGTTGCAGG	AGTCTCTTAT	3120
193	GCTATCAACA	GTGGATACCA	ATCATGGGGA	CCACTCTTTG	ATAAGTTGTT	CTTTGCCTTC	3180
194	TGGGTGATTG	TTCACTTGTA	CCCTTTCCTC	AAGGGTTTGA	TGGGTCGACA	GAACCGGACT	3240
195	CCTACCATTG	TTGTGGTCTG	GTCTGTTCTC	TTGGCTTCTA	TCTTCTCGTT	GTTGTGGGTT	3300
196	AGGATTGATC	CCTTCACTAG	CCGAGTCACT	GGCCCGGACA	TTCTGGAATG	TGGAATCAAC	3360
197	TGTTGAGAAG	CGAGCAAATA	TTTACCTGTT	TTGAGGGTTA	AAAAAAACAC	AGAATTTAAA	3420
198	TTATTTTTCA	TTGTTTTATT	TGTTCACTTT	TTTACTTTTG	TTGTGTGTAT	CTGTCTGTTC	3480
199	GTTCTTCTGT	CTTGGTGTCA	TAAATTTATG	TGTAGAATAT	ATCTTACTCT	AGTTACTTTG	3540
200	GAAAGTTATA	ATTAAAGTGA	AAG				3563

## VERIFICATION SUMMARY

DATE: 11/07/2002

PATENT APPLICATION: US/09/686,234B

TIME: 12:25:50

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11072002\I686234B.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:39 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]  
L:56 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:63 M:111 C: (47) String data converted to upper case,  
M:111 Repeated in SeqNo=1  
L:139 M:111 C: (47) String data converted to upper case,  
M:111 Repeated in SeqNo=2



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,234B

DATE: 11/07/2002

TIME: 09:06:02

Input Set : A:\EP.txt

Output Set: N:\CRF4\11072002\I686234B.raw

SEQUENCE LISTING

Does Not Comply  
Corrected Diskette Needed

2 (1) GENERAL INFORMATION:  
4 (i) APPLICANT: SOMMERVILLE, CHRIS  
5 SCHIEBLE, WOLF  
6 (ii) TITLE OF INVENTION: MODIFIED CELLULOSE SYNTHASE GENE  
7 FROM ARABIDOPSIS THALIANA CONFERS HERBICIDE RESISTANCE  
8 TO PLANTS  
10 (iii) NUMBER OF SEQUENCES: 2  
12 (iv) CORRESPONDENCE ADDRESS:  
13 (A) ADDRESSEE: PAUL A. GOTTLIEB, AGCTT  
14 DEPARTMENT OF ENERGY  
15 GC-62 (FORSTL): MS-6F-067  
16 (B) STREET: 1000 INDEPENDENCE AVE. S.W.  
17 (C) CITY: WASHINGTON, D.C.  
C--> 18 (F) ZIP: 20585  
20 (v) COMPUTER READABLE FORM:  
21 (A) MEDIUM TYPE: FLOPPY DISK  
22 (B) COMPUTER: IBM PC COMPATIBLE  
23 (C) OPERATING SYSTEM: MS-DOS  
24 (D) SOFTWARE: WORDPERFECT 8  
26 (vi) CURRENT APPLICATION DATA:  
C--> 27 (A) APPLICATION NUMBER: US/09/686,234B  
C--> 28 (B) FILING DATE: 11-Oct-2000  
31 (viii) ATTORNEY/AGENT INFORMATION:  
32 (A) NAME: SMITH, BRADLEY  
33 (B) REGISTRATION NUMBER: 334436  
34 (C) REFERENCE/DOCKET NUMBER: S-93994  
C--> 36 (ix) TELECOMMUNICATION INFORMATION:  
37 (A) TELEPHONE: 630-252-2160  
38 (B) TELEFAX: 630-252-2779

(D) STATE: NONE  
(E) COUNTRY: USA

ERRORED SEQUENCES

124 (2) INFORMATION FOR SEQ ID NO: 2:  
126 (i) SEQUENCE CHARACTERISTICS:  
127 (A) LENGTH: 3563 NUCLEOTIDES  
128 (B) TYPE: AMINO ACID  
129 (C) STRANDEDNESS: DOUBLE STRANDED  
130 (D) TOPOLOGY: LINEAR  
132 (ii) MOLECULE TYPE: cDNA  
134 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
136 atcccaagat tctctcttc gtcttcctta taaactatct ctctgtagag aagaaagctt 2060

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/686,234B

DATE: 11/07/2002

TIME: 09:06:02

Input Set : A:\EP.txt

Output Set: N:\CRF4\11072002\I686234B.raw

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137 ggatccagat tgagagagat tcagagagcc acatcaccac actccatctt cagatctcat 0120
138 gatttgaact attccgacgt ttcggtgttg gaagcaacta agtgacaaat ggaatccgaa 0180
139 ggggaaaccg cgggaaagcc gatgaagaac attgttccgc agacttgcca gatctgtagt 0240
140 gacaatgttg gcaagactgt tgatggagat. cgttttgttg. cttgtgatat. ttgttcattc. 0300
141 ccagtttgtc ggccttgcta cgagtatgag aggaaagatg. ggaatcaatc. ttgtcctcag 0360
142 tgcaaaacca gatacaagag gctcaaaggt agtcctgcta ttcctggtga. taaagacgag. 0420
143 gatggcttag ctgatgaagg tactgttgag ttcaactacc ctcagaagga gaaaatttca 0480
144 gagcggatgc ttggttgcca tcttactcgt gggaagggag aggaaatggg ggaaccccag 0540
145 tatgataaag aggtctctca caatcatctt cctcgtctca cgagcagaca agatacttca 0600
146 ggagagtttt ctgctgcctc acctgaacgc ctctctgtat cttctactat cgctggggga 0660
147 aagegccttc cctattcctc agatgtcaat. caatcaccaa. atagaaggat. tggggtcct. 0720
148 gttggactcg ggaatgtagc ttggaaggag. agagttgatg. gctggaaaat. gaagcaagag. 0780
149 aagaatactg gtctgtcag acgcaggct gcttctgaaa gaggtggagt agatattgat 0840
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152 cggcttgtta. tcttttgtct. cttcttgcct. taccgtataa. caaacccagt. gccaaatgcc. 1020
153 ttgtctctat ggctgggtctc tgtgatattg. gagatctggt. ttgccttctc. ctggattttg. 1080
154 gatcagtttc. ccaagtgggt. tctgtgaac. cgtgaaacct. acctcgacag. gcttgcctta. 1140
155 agatatgacg. gtgaagggtga. gccatcacag. tttagctgctg. ttgacatttt. cgtgagtact. 1200
156 gttgaccttc. tgaaggagcc. accccttctg. acagccaaca. cagtgccttc. tattctggct. 1260
157 gttgactacc. cagttgacaa. ggtgtcctgt. tatgtttttg. atgatgggtgc. tgctatgtta. 1320
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## RAW SEQUENCE LISTING

DATE: 11/07/2002

PATENT APPLICATION: US/09/686,234B

TIME: 09:06:02

Input Set : A:\EP.txt

Output Set: N:\CRF4\11072002\I686234B.raw

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Dossier: 09686234

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1	CTMS	3

Total number of pages: 3

Remarks:

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